

Hinge point

Caltrans approved In-line

Terminal System End Treatment

See Notes 6 and 7

AC Dike, Type C

See Note 10



end post-1:6 Taper to 1.0 m Typ from ES Center of end post Min I:IO or flatter slope __ 0.9 m Min 132 m Min m Edge of paved shoulder or offset line of traveled way Caltrans approved Flared Terminal System End Treatment Additional see Note 7 AC Dike, Type C. AC Dike, Type C See Note IO 7.6 m Min. See Note

TYPE IGH LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS
WITH A FLARED END TREATMENT AND AN IN-LINE TREATMENT AT THE ENDS OF RAILINGS
SEE NOTE 9

AC Dike, Type F. See Note 10

I.2 m Min, See Note 4-

Shoulder

_7.6 m Min N

ETW-

0.9 m Min

NOTES

Hinge point

AC Dike

FS

0

0

I.O m Typ

Notes in Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.

Center of end post

I.O m Min

Center of end post

1:10 or

flatter slope

5. Direction of adjacent traffic indicated by

Additional AC Dike, Type C 7.6 m Min, See Note 10

- 2. Guard railing post spacing to be 1905 mm center to center, except as otherwise
- 3. Except as noted, line posts are 150 mm \times 200 mm \times 1.83 m wood with 150 mm \times 200 mm \times 360 mm wood blocks. MW 150 \times 14 steel posts, 1.83 m in length, with 150 mm \times 200 mm \times 360 mm wood blocks or plastic blocks may be used for 150 mm \times 200 mm \times 1.83 m wood posts with 150 mm \times 200 mm \times 360 mm wood blocks where applicable and when specified.
- 4 A 1.2 m minimum clearance is required between the face of the railing and the face of a fixed object located directly behind guard railing with post spacing at 1905 mm. Construct guard railing as shown in the detail "Strengthened Railing Sections for Fixed Objects" on this plan, where the clearance between the face of the railing and the face of a fixed object is less than 1.2 m, but not less than 685 mm. Where the clearance is less than 685 mm, a concrete wall or barrier should be constructed to shield the fixed object(s).

In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.

Fixed object (Bridge columns.

overhead sign support, etc.)

Hinge point

Shoulder

7.6 m Min

-ETW

7. The type of terminal system to be used will be shown on the Project Plans.

See

Note 8

- As site conditions dictate, construct additional guard railing to shield fixed object(s). Additional guard railing length equal to multiples of 3.8 m. Post spacing at 1905 mm, except as specified in Note.
- Layout Types 16D through 16L, shown on the A776 Series of Standard Plans, typically used where guard railing is recommended to shield roadside fixed object(s) and a crashworthy end treatment is required for both directions of traffic. See Railing Case 8 in Diagram No. 5 on Standard Plan A7701.
- 10. Where placement of dike is required with guard railing, see Standard Plan A77C4 for dike positioning details.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR ROADSIDE FIXED OBJECTS

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

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